Jan Plutnar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Triazacyclononaneâ€Based Bifunctional Phosphinate Ligand for the Preparation of Multimeric ⁶⁸ Ga Tracers for Positron Emission Tomography. Chemistry - A European Journal, 2010, 16, 7174-7185.	3.3	138
2	Complexation of Metal Ions with TRAP (1,4,7-Triazacyclononane Phosphinic Acid) Ligands and 1,4,7-Triazacyclononane-1,4,7-triacetic Acid: Phosphinate-Containing Ligands as Unique Chelators for Trivalent Gallium. Inorganic Chemistry, 2012, 51, 577-590.	4.0	96
3	The chemistry of CVD graphene. Journal of Materials Chemistry C, 2018, 6, 6082-6101.	5.5	95
4	Preserving Fine Structure Details and Dramatically Enhancing Electron Transfer Rates in Graphene 3D-Printed Electrodes via Thermal Annealing: Toward Nitroaromatic Explosives Sensing. ACS Applied Materials & Interfaces, 2019, 11, 35371-35375.	8.0	82
5	Products of Degradation of Black Phosphorus in Protic Solvents. ACS Nano, 2018, 12, 8390-8396.	14.6	70
6	Inherent impurities in 3D-printed electrodes are responsible for catalysis towards water splitting. Journal of Materials Chemistry A, 2020, 8, 1120-1126.	10.3	57
7	Thermodynamic and Kinetic Study of Scandium(III) Complexes of DTPA and DOTA: A Step Toward Scandium Radiopharmaceuticals. Chemistry - A European Journal, 2014, 20, 7944-7955.	3.3	55
8	A Maze in Plastic Wastes: Autonomous Motile Photocatalytic Microrobots against Microplastics. ACS Applied Materials & Interfaces, 2021, 13, 25102-25110.	8.0	53
9	Swarming of Perovskiteâ€Like Bi ₂ WO ₆ Microrobots Destroy Textile Fibers under Visible Light. Advanced Functional Materials, 2020, 30, 2007073.	14.9	48
10	Chemically programmable microrobots weaving a web from hormones. Nature Machine Intelligence, 2020, 2, 711-718.	16.0	46
11	Multifunctional Visibleâ€Light Powered Micromotors Based on Semiconducting Sulfur―and Nitrogenâ€Containing Donor–Acceptor Polymer. Advanced Functional Materials, 2020, 30, 2002701.	14.9	42
12	Chemical Microrobots as Self-Propelled Microbrushes against Dental Biofilm. Cell Reports Physical Science, 2020, 1, 100181.	5.6	40
13	Plasmonic Selfâ€Propelled Nanomotors for Explosives Detection via Solutionâ€Based Surface Enhanced Raman Scattering. Advanced Functional Materials, 2019, 29, 1903041.	14.9	35
14	Fluorination of Black Phosphorus—Will Black Phosphorus Burn Down in the Elemental Fluorine?. Advanced Functional Materials, 2018, 28, 1801438.	14.9	34
15	Fluorographene Modified by Grignard Reagents: A Broad Range of Functional Nanomaterials. Chemistry - A European Journal, 2017, 23, 1956-1964.	3.3	30
16	Novel polymeric metal complexes of calix[4]arene-11,23-diphosphonic acid: synthesis and structure determination. Inorganica Chimica Acta, 2002, 335, 27-35.	2.4	29
17	Thermodynamic, kinetic and solid-state study of divalent metal complexes of 1,4,8,11-tetraazacyclotetradecane (cyclam) bearing two trans (1,8-)methylphosphonic acid pendant arms. Dalton Transactions, 2006, , 5184-5197.	3.3	29
18	Metal Complexes of 4,11-Dimethyl-1,4,8,11-tetraazacyclotetradecane-1,8-bis(methylphosphonic acid) - Thermodynamic and Formation/Decomplexation Kinetic Studies. European Journal of Inorganic Chemistry, 2009, 2009, 3577-3592.	2.0	29

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19	Bone-seeking TRAP conjugates: surprising observations and their implications on the development of gallium-68-labeled bisphosphonates. EJNMMI Research, 2012, 2, 13.	2.5	29
20	Atomic Layer Deposition as a General Method Turns any 3Dâ€Printed Electrode into a Desired Catalyst: Case Study in Photoelectrochemisty. Advanced Energy Materials, 2019, 9, 1900994.	19.5	28
21	Chemotactic Micro―and Nanodevices. Angewandte Chemie - International Edition, 2019, 58, 2190-2196.	13.8	25
22	Two-Dimensional Functionalized Germananes as Photoelectrocatalysts. ACS Nano, 2021, 15, 11681-11693.	14.6	25
23	Metal Complexes with Very Large Dipole Moments: the Anionic Carborane Nitriles 12-NC–CB11X11–(X =) Ţ	ETQq1 1 4.0	. 0.784314 rg 22
24	Sixâ€Degreeâ€ofâ€Freedom Steerable Visibleâ€Lightâ€Driven Microsubmarines Using Water as a Fuel: Applicati for Explosives Decontamination. Small, 2021, 17, e2100294.	^{on} 10.0	22
25	Unsymmetrically substituted side-bridged cyclam derivatives and their Cu(<scp>ii</scp>) and Zn(<scp>ii</scp>) complexes. New Journal of Chemistry, 2008, 32, 496-504.	2.8	20
26	Ternary Complexes of Zinc(II), Cyclen and Pyridinecarboxylic Acids. European Journal of Inorganic Chemistry, 2007, 2007, 3974-3987.	2.0	19
27	Exfoliation of Calcium Germanide by Alkyl Halides. Chemistry of Materials, 2019, 31, 10126-10134.	6.7	18
28	Alkali Metal Arenides as a Universal Synthetic Tool for Layered 2D Germanene Modification. Angewandte Chemie - International Edition, 2019, 58, 16517-16522.	13.8	14
29	Bismuthene Metallurgy: Transformation of Bismuth Particles to Ultrahighâ€Aspectâ€Ratio 2D Microsheets. Small, 2020, 16, e2002037.	10.0	14
30	Near-Atomic-Thick Bismuthene Oxide Microsheets for Flexible Aqueous Anodes: Boosted Performance upon 3D → 2D Transition. ACS Applied Materials & Interfaces, 2020, 12, 55936-55944.	8.0	13
31	Fluorographene and Graphane as an Excellent Platform for Enzyme Biocatalysis. Chemistry - A European Journal, 2018, 24, 16833-16839.	3.3	8
32	Fluorine saturation on thermally reduced graphene. Applied Materials Today, 2019, 15, 343-349.	4.3	8
33	Cross-Bridged Cyclam with Phosphonate and Phosphinate Pendant Arms: Chelators for Copper Radioisotopes with Fast Complexation. Inorganic Chemistry, 2020, 59, 8432-8443.	4.0	8
34	Chemotaktische Mikro―und Nanomaschinen. Angewandte Chemie, 2019, 131, 2212-2218.	2.0	7
35	Fluorographenes for Energy and Sensing Application: The Amount of Fluorine Matters. ACS Omega, 2018, 3, 17700-17706.	3.5	6
36	Mechanical vs Electronic Strain: Oval-Shaped Alkynyl-Pt(II)-Phosphine Macrocycles. Organometallics, 2019, 38, 4633-4644.	2.3	6

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37	Fluorinated Transition Metal Carbides for Flexible Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6353-6362.	5.1	6
38	A New Tris(phosphonomethyl) Monoacetic Acid Cyclam Derivative: Synthesis, Acid-Base and Metal Complexation Studies. European Journal of Inorganic Chemistry, 2011, 2011, 527-538.	2.0	5
39	Electron Transfer Mechanism of Substituted Benzimidazoles: Dimer Switching, Oscillations, and Search for Singlet Fission Properties. Journal of Physical Chemistry C, 2017, 121, 9963-9969.	3.1	5
40	Layered black phosphorus as a reducing agent – decoration with group 10 elements. RSC Advances, 2020, 10, 36452-36458.	3.6	5
41	Selenium covalently modified graphene: towards gas sensing. 2D Materials, 2019, 6, 034006.	4.4	4
42	Mechanism of Surface Alkylation of a Gold Aerogel with Tetra-n-butylstannane-d36: Identification of Byproducts. Journal of Physical Chemistry Letters, 2017, 8, 2339-2343.	4.6	3
43	Alkali Metal Arenides as a Universal Synthetic Tool for Layered 2D Germanene Modification. Angewandte Chemie, 2019, 131, 16669-16674.	2.0	0
44	Bismuthene Microsheets: Bismuthene Metallurgy: Transformation of Bismuth Particles to Ultrahighâ€Aspectâ€Ratio 2D Microsheets (Small 29/2020). Small, 2020, 16, 2070163.	10.0	0
45	Oxidation of the B12 and CB11 Icosahedral Anions. , 2018, , 137-158.		0